PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing See form PCT/ISA/210 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION P10-1602 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP2005/001338 10.02.2005 11.02.2004 International Patent Classification (IPC) or both national classification and IPC C08L21/00, C08K5/00 Applicant SOCIETE DE TECHNOLOGIE MICHELIN This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized officer

Telephone No.

Facsimile No.

International application No.
PCT/EP2005/001338

Box No. I		Basis of this opinion								
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.								
	This opinion has been established on the basis of a translation from the original language into the following language									
	-	which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).								
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed								
invention, this opinion has been established on the basis of:										
	a.	type of material								
		a sequence listing								
		table(s) related to the sequence listing								
	b.	format of material								
		in written format								
		in computer readable form								
	c.	time of filing/furnishing								
		contained in the international application as filed.								
		filed together with the international application in computer readable form.								
		furnished subsequently to this Authority for the purposes of search.								
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3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application does not go beyond the application as filed, as appropriate, were furnished.										
4.	٨٨٨	itional comments:								
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		ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
Statement			_
Novelty (N)	Claims	1-53	YES
	Claims		_ NO
Inventive step (IS)	Claims	1-53	YES
-	Claims		_ NO
Industrial applicabili	ty (IA) Claims	1-53	YES
	Claims		- NO
. Citations and explanation	ons:		
1. Refere	ence is ma	de to the following documents in the	•
preser	nt notific	ation:	
D1:	Null V.:	"Safe process oils for tires with low	
	environme	ntal impact", Kautschuk und Gummi -	
	Kunststof	fe- Asbest, Dr. Alfred Huthig Verlag	
	GmbH, Hei	delberg, DE. vol. 52, no. 12, 1999,	
	pages 799	-800, 802, XP002184259	
D2:	J. Bowman	, M. Da Via, M.E. Pattnelli,	
	P. Torlor	eto: "The influence of non-toxic	
	extender	oil on SBR performances", Kautschuk	
	Gummi Kun	ststoffe, vol. 57, no. 1,	
	1 Februar	y 2004 (2004-02-01), pages 31-36,	
	XP0011831	98, Heidelberg	
2. Novelt	y and inv	entive step - claims 1-53	
2.1. Docume	ent D1, wh	ich is considered to represent the	
most i	relevant p	rior art, describes a plasticizer	
system	n characte	rized in that it comprises an MES or	
_		ages 799-804).	
2.2 Indepe	endent cla	ims 1, 25, 39, 43, 46, 49 and 53 of	
_		lication differ from D1 by replacing	

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

some of these MES or TDAE oils with a polylimonene resin.

- 2.3. The subject matter of claims 1-53 (plasticizer system, rubber composition comprising said plasticizer system, a method for preparing said rubber composition, use of said composition for manufacturing an article, said finished or semifinished article, and the use of said plasticizer system for plasticising a diene rubber composition) is therefore novel.
- 2.4. In general, in rubber compositions for tyres, replacing DAE aromatic oils with MES or TDAE oils results in a reduction in the abrasion and cut resistance of said compositions.

 The problem that the present invention is intended to solve can be considered to be that of:

 Providing an improved plasticizer system based on an MES or TDAE oil that avoids the above drawbacks.
- 2.5. The solution proposed in the present application is a plasticizer system characterized in that it comprises an MES or TDAE oil and, in addition, a polylimonene resin.
- 2.6. Neither D1 nor a combination of D1 and D2 suggests said solution to the problem. The subject matter of claims 1-53 of the present application therefore involves an inventive step.

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement												
3.	The	invention	s acco	rding	to	claims	1	to	53	are			·
	ind	ustrially	applic	able.									*
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